

CLAIMS

1. A media drive having a normal mode of operation and a power saving mode of operation less in power consumption than the normal mode of operation and controlling rotation of a removable medium in accordance with these modes of operation, the media drive comprising:

detection means for detecting ejection/insertion of the removable medium in the power saving mode of operation; and

media control means for notifying an external device about detection of the ejection/insertion of the removable medium, shifting from the power saving mode of operation to the normal mode of operation in accordance with an instruction from the external device receiving the notification, and controlling rotation of the removable medium.

2. A computer system comprising the media drive according to claim 1, and a host computer connected to the media drive, the host computer including drive control means for detecting the notification from the media drive, and instructing/controlling the media drive to shift to the normal mode of operation.

3. A media drive control method for allowing the host computer to control an operation of the media drive in the computer system according to claim 2, the media drive control method comprising:

a first step that the host computer places the media drive in the power saving mode of operation;

a second step that the media drive shifted to the power saving mode of operation in the first step detects ejection/insertion of the removable medium;

a third step that the media drive notifies the host computer about a result of the detection of the ejection/insertion of the removable medium in the second step;

a fourth step that the host computer detects the notification from the media drive in the third step;

a fifth step that the host computer detecting the

notification from the media drive in the fourth step returns the media drive from the power saving mode of operation to the normal mode of operation; and

a sixth step that the media drive returned from the power saving mode of operation to the normal mode of operation in the fifth step controls rotation of the removable medium.

4. A media drive having a normal mode of operation and a power saving mode of operation less in power consumption than the normal mode of operation and controlling rotation of a removable medium in accordance with these modes of operation, the media drive comprising:

detection means for detecting that a media ejection button is pushed for ejecting the removable medium and that a media insertion mechanism part is closed by insertion of the removable medium in the power saving mode of operation; and

media control means for notifying an external device about the detection that the media ejection button is pushed or the media insertion mechanism part is closed, shifting from the power saving mode of operation to the normal mode of operation in accordance with an instruction from the external device receiving the notification, and controlling rotation of the removable medium.

5. A computer system comprising the media drive according to claim 4, and a host computer connected to the media drive, the host computer including drive control means for detecting the notification from the media drive, and instructing/controlling the media drive to shift to the normal mode of operation.

6. A media drive control method for allowing the host computer to control an operation of the media drive in the computer system according to claim 5, the media drive control method comprising:

a first step that the host computer places the media drive in the power saving mode of operation;

a second step that the media drive shifted to the power saving mode of operation in the first step detects that the media ejection button is pushed or that the media insertion mechanism

part is closed;

a third step that the media drive notifies the host computer about a result of the detection that the media ejection button is pushed or the detection that the media insertion mechanism part is closed in the second step;

a fourth step that the host computer detects the notification from the media drive in the third step;

a fifth step that the host computer detecting the notification from the media drive in the fourth step returns the media drive from the power saving mode of operation to the normal mode of operation; and

a sixth step that the media drive returned from the power saving mode of operation to the normal mode of operation in the fifth step controls rotation of the removable medium.

7. A media drive having a normal mode of operation and a power saving mode of operation less in power consumption than the normal mode of operation and controlling rotation of a removable medium in accordance with these modes of operation, the media drive comprising:

detection means for detecting that a media insertion mechanism part is opened by ejection of the removable medium and that the media insertion mechanism part is closed by insertion of the removable medium in the power saving mode of operation; and

media control means for notifying an external device about the detection that the media insertion mechanism part is opened or the detection that the media insertion mechanism part is closed, shifting from the power saving mode of operation to the normal mode of operation in accordance with an instruction from the external device receiving the notification, and controlling rotation of the removable medium.

8. A computer system comprising the media drive according to claim 7, and a host computer connected to the media drive, the host computer including drive control means for detecting the notification from the media drive, and

instructing/controlling the media drive to shift to the normal mode of operation.

9. A media drive control method for allowing the host computer to control an operation of the media drive in the computer system according to claim 8, the media drive control method comprising:

a first step that the host computer places the media drive in the power saving mode of operation;

a second step that the media drive shifted to the power saving mode of operation in the first step detects that the media insertion mechanism part is opened or that the media insertion mechanism part is closed;

a third step that the media drive notifies the host computer about a result of the detection that the media insertion mechanism part is opened or the detection that the media insertion mechanism part is closed in the second step;

a fourth step that the host computer detects the notification from the media drive in the third step;

a fifth step that the host computer detecting the notification from the media drive in the fourth step returns the media drive from the power saving mode of operation to the normal mode of operation; and

a sixth step that the media drive returned from the power saving mode of operation to the normal mode of operation in the fifth step controls rotation of the removable medium.

10. A media drive having a normal mode of operation and a power saving mode of operation less in power consumption than the normal mode of operation and controlling rotation of a removable medium in accordance with these modes of operation, the media drive comprising:

detection means for detecting that a media ejection button is pushed for ejecting the removable medium in the power saving mode of operation; and

media control means for notifying an external device about the detection that the media ejection button is pushed, shifting from the power saving mode of operation to the normal mode of

operation in accordance with an instruction from the external device receiving the notification, and controlling rotation of the removable medium.

11. A computer system comprising the media drive according to claim 10 and a host computer connected to the media drive, the host computer including drive control means for detecting the notification from the media drive, and instructing/controlling the media drive to shift to the normal mode of operation.

12. A media drive control method for allowing the host computer to control an operation of the media drive in the computer system according to claim 11, the media drive control method comprising:

a first step that the host computer places the media drive in the power saving mode of operation;

a second step that the media drive shifted to the power saving mode of operation in the first step detects that the media ejection button is pushed;

a third step that the media drive notifies the host computer about a result of the detection that the media ejection button is pushed in the second step;

a fourth step that the host computer detects the notification from the media drive in the third step;

a fifth step that the host computer detecting the notification from the media drive in the fourth step returns the media drive from the power saving mode of operation to the normal mode of operation; and

a sixth step that the media drive returned from the power saving mode of operation to the normal mode of operation in the fifth step controls rotation of the removable medium.

13. A media drive having a normal mode of operation and a power saving mode of operation less in power consumption than the normal mode of operation and controlling rotation of a removable medium in accordance with these modes of operation, the media drive comprising:

detection means for detecting that a media insertion

mechanism part is opened by ejection of the removable medium in the power saving mode of operation; and

media control means for notifying an external device about the detection that the media insertion mechanism part is opened, shifting from the power saving mode of operation to the normal mode of operation in accordance with an instruction from the external device receiving the notification, and controlling rotation of the removable medium.

14. A computer system comprising the media drive according to claim 13 and a host computer connected to the media drive, the host computer including drive control means for detecting the notification from the media drive, and instructing/controlling the media drive to shift to the normal mode of operation.

15. A media drive control method for allowing the host computer to control an operation of the media drive in the computer system according to claim 14, the media drive control method comprising:

a first method that the host computer places the media drive in the power saving mode of operation;

a second step that the media drive shifted to the power saving mode of operation in the first step detects that the media insertion mechanism part is opened;

a third step that the media drive notifies the host computer about a result of the detection that the media insertion mechanism part is opened in the second step;

a fourth step that the host computer detects the notification from the media drive in the third step;

a fifth step that the host computer detecting the notification from the media drive in the fourth step returns the media drive from the power saving mode of operation to the normal mode of operation; and

a sixth step that the media drive returned from the power saving mode of operation to the normal mode of operation in the fifth step controls rotation of the removable medium.